

Date: Tue, 28 Dec 93 04:30:35 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V93 #125
To: Ham-Space

Ham-Space Digest Tue, 28 Dec 93 Volume 93 : Issue 125

Today's Topics:

 P3D Frequencies Preliminary
 Post your Sat-Track software pick here (2 msgs)
 Satel Tracking Software (2 msgs)
 SatTrack 1.7 / Xsat / Xephem / SFS

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 27 Dec 1993 09:52:43 -0700
From: library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!math.ohio-state.edu!
cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: P3D Frequencies Preliminary
To: ham-space@ucsd.edu

SB SAT @ AMSAT \$ANS-361.01
PHASE-3D FREQUENCIES

HR AMSAT NEWS SERVICE BULLETIN 361.01 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 27, 1993
TO ALL RADIO AMATEURS BT
BID: \$ANS-361.01

PHASE-3D FREQUENCIES PRELIMINARY

This bulletin is to correct an error appearing in ANS Bulletin ANS-
359.01 PHASE-3D FREQUENCIES.

While that bulletin's subtitle indicated that these frequencies are "solidified" for Phase-3D, actually, they are preliminary and comments on specific selections are welcome and will be considered.

Please post any comments via AMSAT.ORG to ON6UG, with a copy to W3X0, by January 31, 1994

/EX

Date: Tue, 28 Dec 1993 01:02:51 GMT
From: dog.ee.lbl.gov!newshub.nosc.mil!news!usenet@network.ucsd.edu
Subject: Post your Sat-Track software pick here
To: ham-space@ucsd.edu

Re: Satellite tracking software for PCs and Macs but no compromises.

I'm sure this has been asked before I read this group, but I am still needing the information. There was interesting discussion of the satellite tracking software for X-windows like machines or unix boxes with VT100's (ugh!!) but what about the rest of us. I have no intention of ever using a unix box for satellite tracking, but I might find a PC (or dare I get greedy and hope for a Mac with a large color display) available. I've seen some line based output for PCs with EGA, and one less than satisfactory program for the PC with VGA, but I'd like a really good tracking program - one that has plenty of features, plenty of support, can be customized, and provides control for tracking antennas and predictive displays. I want it all, and I want to pay share-ware prices for it. Well I want it all anyway. I'm willing to pay my-share prices.

What is the short list of software to consider for Macs and PCs with VGA and possibly (bleh..) MS Windows?

Please post replies as I'm confident others will want to see, and I'll just have to ask you permission to post your replies to me. Let's just have the discussion on the usenet, OK?

Roger Keating - KD6EFQ

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Roger Keating, Cognitive Engineer PS&E keating@nosc.navy.mil	KD6EFQ
Naval Command, Control and Ocean Surveillance Center RDTE DIV	VHF DX is
NRaD Advanced Afloat System HCI - Code 44209	Fun!
53245 Patterson Rd, San Diego CA 92152-7150 USA	Try it.
-----	-----

like a new sat going online every month, there are
lots of 'em visable at the same time)... price is
~\$175 from tapr, they will have new batch of kits
available in feb, contact them on the net tapr.org
the trakbox was jointly developed by tapr and
jamsat (japanese amsat) with much assistance from
jack, wa4ejr@tapr.org (tell him mitch sent you)...

you can't go wrong with any of the above!!! my trakbox is almost ready...
i got tired of my computer being tied up tracking and the aggravation
of trying to get tracking, satellite sequencing, and pg/pb all
running at the same time under desqview... with the trakbox doing
the tracking/sequencing of my antennas it should be much easier
to get pg/pb properly sequenced for *completely* (well, almost)
unattended pacsat operation... (and i wouldn't have sold my dsp-2232
if i had known aea was trying to fix the dsp-2232/pg timing glitch)

any other comments???

mitch, wa4osr

--

fmitch@netcom.com

Felton "Mitch" Mitchell, WA4OSR in Mobile, Alabama USA

205-342-7259 home, 205-476-4100 work, 205-476-0465 FAX

co-sysop for W4IAX bbs running fbb ... sysop for WA4OSR DXCluster in Mobile..

Date: Mon, 27 Dec 1993 18:58:57 GMT

From: netcomsv!netcom.com!slegrand@decwrl.dec.com

Subject: Satel Tracking Software

To: ham-space@ucsd.edu

Bob Kupiec (bob@olwejo.UUCP) wrote:

: In <2f2r9b\$nc3@hip-hop.sbay.org>, benjie@hip-hop.sbay.org writes:

: >I am getting interested in satel tracking, and I would like

: >suggestions on what tracking shareware I should get.

: For a UNIX system, (or possibly any computer with a good C compiler

: i.e. gcc) SatTrack 1.7 was just released. So far, it's the best

: freely-available tracking software I've found for UNIX. SatTrack does

: not use X, but vt100 screen mapping.

: It's the best UNIX, free, non-X satellite tracker there is.

: If anyone's seen better, feel free to let me know!

: --

: Bob Kupiec, N3MML Internet: bob@zero.com
: Morrisville, PA, USA (or) kupiec@jvnc.net
: 40d12'N 74d49'W +110ft AX.25: n3mml@wb3ftp.#epa.pa.usa.noam
: "Motorola 68k Inside!" PGP key 1F9C51 available ~ Get WiReD

Is there any good freely distributable tracking programs that use X?
BTW, What is the home ftp site for SatTrack?

```
*****
* Shawn P. Legrand          * The scientist does not study nature *
* Sr. Systems Programmer   * because it is useful; he studies it *
* ICW                      * because he delights in it, and he *
* (619)-546-2457          * delights in it because it is beautiful. *
* INTERNET: slegrand@netcom.com * - Henri Poincare *
* IBMMAIL: USICWSPI        * *
*****
--
```

```
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* (619)-546-2457          * delights in it because it is beautiful. *
* INTERNET: slegrand@netcom.com * - Henri Poincare *
* IBMMAIL: USICWSPI        * *
*****
```

Date: Mon, 27 Dec 1993 20:25:23 GMT
From: yeshua.marcam.com!zip.eecs.umich.edu!umn.edu!msc.edu!vulcan.iss.bnr.com!
vulcan!tgb@uunet.uu.net
Subject: Satel Tracking Software
To: ham-space@ucsd.edu

>

>Is there any good freely distributable tracking programs that use X?
>BTW, What is the home ftp site for SatTrack?

>

Try xsat for X windows.

\$ archie -s xsat

Host gatekeeper.dec.com

Location: /.9/X11/contrib

FILE	-r--r--r--	4173	Apr 10 1992	xsat.README
FILE	-r--r--r--	1647479	Apr 10 1992	xsat1.0.tar.Z

Host harbor.ecn.purdue.edu

Location: /pub/davy

FILE	-r--r--r--	1647479	Apr 9 1992	xsat1.0.tar.Z
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Host pdq.coe.montana.edu

Location: /pub/mirrors/X11-contrib

FILE	-rw-r--r--	1973	Apr 8 1992	xsat.README.gz
FILE	-rw-r--r--	1059650	Mar 28 1993	xsat1.0.tar.gz

Host sunsite.unc.edu

Location: /pub/X11/contrib

FILE	-rw-r--r--	4173	Sep 8 1992	xsat.README
FILE	-rw-r--r--	1647479	Sep 8 1992	xsat1.0.tar.Z

Host cs.columbia.edu

Location: /archives/mirror1/X11R5/contrib

FILE	-rw-rw-r--	4173	Apr 9 1992	xsat.README
FILE	-rw-rw-r--	1062429	Apr 9 1992	xsat1.0.tar.gz

Host dimacs.rutgers.edu

Location: /pub/workshop/avg

FILE	-rwxr-xr-x	81920	Oct 10 09:25	maxsatJul30
------	------------	-------	--------------	-------------

Host ftp.cs.umn.edu

Location: /pub/X/contrib

FILE	-r--r--r--	4173	Apr 9 1992	xsat.README
FILE	-r--r--r--	1647479	Apr 9 1992	xsat1.0.tar.Z

Host ftp.germany.eu.net

Location: /X11/contrib

FILE	-r--r--r--	4173	Apr 10 1992	xsat.README
FILE	-r--r--r--	1647479	Apr 10 1992	xsat1.0.tar.Z

Host ftp.luth.se

Location: /pub/X11/contrib

FILE	-r--r--r--	4173	Apr 10 1992	xsat.README
FILE	-r--r--r--	1647479	Apr 10 1992	xsat1.0.tar.Z

Host ftp.msen.com

Location: /pub/gopher/stuff/stuff.old/sci.all

FILE -rw-rw-r-- 3437 Apr 15 1992 .xsat.announce

Host ftp.sunet.se

Location: /pub/X11/contrib

FILE -r--r--r-- 4173 Apr 9 1992 xsat.README

FILE -r--r--r-- 1647479 Apr 9 1992 xsat1.0.tar.Z

Host ftp.uu.net

Location: /pub/window-sys/X/contrib

FILE -rw-r--r-- 2479 Apr 9 1992 xsat.README.Z

DIRECTORY drwxr-xr-x 512 Nov 19 1992 xsat1.0.tar.Z-split

Host ftp.wustl.edu

Location: /packages/X11R5/contrib-pub

FILE -r--r--r-- 4173 Apr 8 1992 xsat.README

FILE -r--r--r-- 1647479 Apr 8 1992 xsat1.0.tar.Z

--

How many software patents have you infringed upon today?

tgb@bnu003.cncc.bnr.com home bnu002.uucp!tommyb!tom@bnu003.bnr.com

Date: Mon, 27 Dec 1993 22:27:11 GMT

From: swrinde!cs.utexas.edu!howland.reston.ans.net!newsserver.jvnc.net!jvnc.net!

kupiec@network.ucsd.edu

Subject: SatTrack 1.7 / Xsat / Xephem / SFS

To: ham-space@ucsd.edu

Since a few people have sent email wondering where SatTrack 1.7 can be found. It's at at ucsd.edu, dir "hamradio/packet/tcpip/incoming".

Again SatTrack is a realtime satellite tracker that uses vt100 screen mapping. You don't need X11 or curses.

=====

Now onto more interesting questions. ;-) Has anyone stipped Xsat down to use just it's Postscript mapping? I want to run Xsat on a non-X workstation and print the Postscript maps. I guess I could

hack at the code again, but I'm wondering if someone has done it already.

The reason being I'm using all of the programs mentioned in the Subject: header and each of them has useful features. Does somebody want to combine all of them and save me a whole bunch of work? ;-)

Xsat: uses N3EM0's "orbit" to generate Postscript tracking maps

SatTrack: provides real-time data on a satellite

SFS (Space Flight Simulator): Has a nice X display, somewhat like on NASA Select TV

Xephem: Can track earth satellites in real-time, but meant for planets/stars.

--

Bob Kupiec	Email: kupiec@jvnc.net	JvNC (GES, Inc.)
Network Operations	Ham: N3MML	3 Independence Way
Phone: 609-897-7319	Fax: 609-897-7310	Princeton, NJ 08540

Date: Mon, 27 Dec 93 15:14:00 PST
From: almaden.ibm.com@uunet.uu.net
To: ham-space@ucsd.edu

References <2f2r9b\$nc3@hip-hop.sbay.org>, <CIDC60.CtA@olwejo.UUCP>, <slegrandCipJEB.1Kx@netcom.com>

Reply-To : inote

Subject : What was the first major use of PRML signal processing scheme?

I'm helping a magazine editor check some facts in a draft article on digital-read disk drives and thought someone here might be able to help with one of his questions:

What was the first significant application of the PRML (partial-response/maximum likelihood) digital signal processing technique?

The editor understands that it was in the communication setup with deep space probes (such as the Viking Lander). True? If not, what were earlier examples?

Unfortunately, the magazine's deadline is Tuesday, Dec 28. So a rapid reply (or pointer to a reference) would be greatly appreciated.

Many thanks,

Mike Ross

Communications (PR)
Almaden Research Center

Date: Mon, 27 Dec 1993 22:32:36 GMT
From: usc.edu!howland.reston.ans.net!newsserver.jvnc.net!jvnc.net!
kupiec@network.ucsd.edu
To: ham-space@ucsd.edu

References <2f2r9b\$nc3@hip-hop.sbay.org>, <CIDC60.CtA@olwejo.UUCP>,
<slegrandCipJEB.1Kx@netcom.com>
Subject : Re: Satel Tracking Software

In <slegrandCipJEB.1Kx@netcom.com>, slegrand@netcom.com writes:
>Bob Kupiec (bob@olwejo.UUCP) wrote:
>: In <2f2r9b\$nc3@hip-hop.sbay.org>, benjie@hip-hop.sbay.org writes:
>: >I am getting interested in satel tracking, and I would like
>: >suggestions on what tracking shareware I should get.
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>: For a UNIX system, (or possibly any computer with a good C compiler
>: i.e. gcc) SatTrack 1.7 was just released. So far, it's the best
>: freely-available tracking software I've found for UNIX. SatTrack does
>: not use X, but vt100 screen mapping.
>
>BTW, What is the home ftp site for SatTrack?

I'm posting the release note for SatTrack 1.7 in case you have not
seen it.

Bob

Hello satellite enthusiasts,

the latest version of the satellite tracking program I've written for Unix
machines is pretty much ready to be used. I hope most of the bugs have been
found (at least the remaining ones ought to be of minor impact). You can get
SatTrack from ucsd.edu (128.54.16.1). Do the following:

```
ftp ucsd.edu
login anonymous
cd hamradio/packet/tcpip/incoming
get sattrack.V1.7.tar.Z
```

Place this file into your Unix home directory, uncompress it, and then
type 'tar xvpf sattrack.V1.7.tar'. This will unbundle the distribution file

and create all subdirectories that are necessary. Then look into the documentation file 'sattrack.doc' in SatTrack/Doc for instructions how to compile sattrack (and some other auxiliary programs). Please let me know how it works and if there are any bugs that I haven't encountered yet. It should compile perfectly on at least Sun-3's (SunOS 4.0.3) and SPARCstation IPCs (SunOS 4.1.1). Some machines require stdlib.h to be included. In this case comment out the line

```
#define SUNOS4
```

in sattrack.h before compilation. I hope this program is helpful to you.

73, Manfred --- W6/DL5KR

Manfred Bester
Space Sciences Lab
University of California
Berkeley, CA 94720
(510) 642-8497

--

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End of Ham-Space Digest V93 #125

